



DOCKET NO. : ISIS-4847

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Muthiah Manoharan

Confirmation No.: 3873

Serial No.: 09/965,551

Group Art Unit: 1635

Filed: September 27, 2001

Examiner: Schultz, James

For: CARBOHYDRATE OR 2'-MODIFIED OLIGONUCLEOTIDES HAVING  
ALTERNATING INTERNUCLEOSIDE LINKAGES

Assistant Commissioner for Patents  
Washington, DC 20231

RECEIVED

SEP 09 2002

Sir:

TECH CENTER 1600/2900

ASSOCIATE POWER OF ATTORNEY

The undersigned, of the firm WOODCOCK WASHBURN LLP, One Liberty  
Place - 46th Floor, Philadelphia, Pennsylvania 19103, Attorney and/or Agents for  
Applicant(s), hereby appoints the following:

Richard E. Kurtz  
Dale M. Heist  
John W. Caldwell  
Gary H. Levin  
Steven J. Rocci  
Dianne B. Elderkin  
John P. Donohue, Jr.  
Henrik D. Parker  
Suzanne E. Miller  
Lynn B. Morreale  
Joseph Lucci  
Michael P. Dunnam  
Michael D. Stein  
Albert J. Marcellino  
David R. Bailey  
Barbara L. Mullin  
Michael P. Straher  
Kevin M. Flannery  
David A. Cherry  
Lynn A. Malinoski  
Steven B. Samuels  
Janet E. Reed  
Jeffrey J. King  
Robert B. Washburn

Registration No. 19,263  
Registration No. 28,425  
Registration No. 28,937  
Registration No. 28,734  
Registration No. 30,489  
Registration No. 28,598  
Registration No. 29,916  
Registration No. 31,863  
Registration No. 32,279  
Registration No. 32,842  
Registration No. 33,307  
Registration No. 32,611  
Registration No. 34,734  
Registration No. 34,664  
Registration No. 35,057  
Registration No. 38,250  
Registration No. 38,325  
Registration No. 35,871  
Registration No. 35,099  
Registration No. 38,788  
Registration No. 37,711  
Registration No. 36,252  
Registration No. 38,515  
Registration No. 16,574

Norman L. Norris  
Michael J. Swope  
Michael J. Bonella  
Harold H. Fullmer  
John E. McGlynn  
Jonathan M. Waldman  
Chad Ziegler  
David N. Farsiou  
Steven H. Meyer  
Paul B. Milcetic  
Joseph R. Condo  
Michael K. Jones  
Frank T. Carroll  
Thomas E. Watson  
Peter M. Ullman  
Richard B. LeBlanc  
Joseph D. Rossi  
George J. Awad  
Steven D. Maslowski  
S. Maurice Valla  
Emma R. Dailey  
Vincent J. Roccia  
Stephen C. Timmins  
Richard D. Watkins

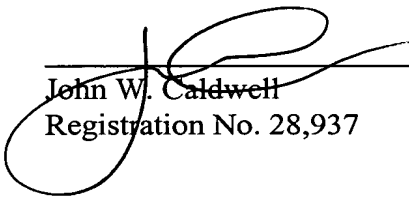
Registration No. 24,196  
Registration No. 38,041  
Registration No. 41,628  
Registration No. 42,560  
Registration No. 42,863  
Registration No. 40,861  
Registration No. 44,273  
Registration No. 44,104  
Registration No. 37,189  
Registration No. 46,261  
Registration No. 42,431  
Registration No. 41,100  
Registration No. 42,392  
Registration No. 43,243  
Registration No. 43,963  
Registration No. 39,495  
Registration No. 47,038  
Registration No. 46,528  
Registration No. 46,905  
Registration No. 43,966  
Registration No. 48,491  
Registration No. 43,887  
Registration No. 48,481  
Registration No. 50,993

Erich M. Falke	Registration No. 49,049	Wendy A. Choi	Registration No. 36,697
Jane E. Inglese	Registration No. 48,444	Felicity E. Groth	Registration No. 47,042
Susan C. Murphy	Registration No. 46,221	Jeffrey H. Rosedale	Registration No. 46,018
Raymond N. Scott, Jr.	Registration No. 48,666	Scott E. Scioli	Registration No. 47,930
David L. Marcus	Registration No. 46,897	Daniel M. Scolnick	Registration No. P52,201
Lawrence A. Aaronson	Registration No. 38,369	Andrew J. Hagerty	Registration No. 44,141
John A. Harrelson	Registration No. 42,637		
Joseph Milowic, III	Registration No. P52,034		
Kenneth R. Eiferman	Registration No. P51,647		
Karen M. Whitney	Registration No. P52,355		
Amy Carr-Trexler	Registration No. P51,531		
Daniel D. Biesterveld	Registration No. 45,898		
Sharon Fenick	Registration No. 45,269		
Phillip A. Singer	Registration No. 40,176		

his/her associates with full power to prosecute the above-identified application and to transact all business in the Patent Office connected therewith and requests that correspondence continue to be directed to the firm of WOODCOCK WASHBURN LLP at the above address.

Date:

*April 29 2002*

  
John W. Caldwell

Registration No. 28,937

Woodcock Washburn LLP  
One Liberty Place - 46th Floor  
Philadelphia PA 19103  
Telephone: (215) 568-3100  
Facsimile: (215) 568-3439